

PT, SP, MS/PT

how to order

PT, SP

To more easily illustrate ordering procedure, part number PT00A-20-41PW(SR) is shown as follows:

PT	00	A	-	20	-	41	P	W	(SR)
1	2	3		4		5	6	7	8

See code below:

- Connector Type
 - "PT" designates standard olive drab, electrically conductive cadmium plate bayonet lock connector with solder contacts
 - "SP" designates electrically non-conductive, hard anodic coated bayonet lock connector with solder contacts and larger flange and mounting holes for back panel mounting
 - "PTG" designates plug with grounding fingers
- Shell Style
 - "00" designates wall mounting receptacle
 - "01" designates cable connecting receptacle**
 - "02" designates box mounting receptacle
 - "06" designates straight plug
 - "07" designates jam nut receptacle
 - "08" designates 90 degree plug cable support
 - "B" designates thru bulkhead receptacle (pressurized)
 - "I" designates solder mount receptacle (Hermetic only)
- Service Classes
 - "A" designates general duty back shell
 - "C" designates pressurized receptacle
 - "E" designates environmental resisting open wire seal with grommet and nut
 - "J" designates clamp assembly for moisture proofing multi-jacketed cables, with strain relief
 - "P" designates assembly with potting boot
 - "W" designates clamp assembly for moisture proofing multi-jacketed cables
 - "H" designates hermetic* without interfacial seal
 - "Y" designates hermetic* with interfacial seal
- Shell Size
 - "20" designates shell size. Shell sizes 6 through 24 available.
- Insert Arrangement - Refer to pages 4-11 for insert availability.
 - "20 - 41" designates insert arrangement. (The number following the hyphen is the number only that is used in the part number).
- Contacts
 - "P" designates pin contacts
 - "S" designates socket contacts

For ordering connectors with printed circuit board contacts, see pg. 20.
- Insert Rotation - Refer to page 7.
 - "W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal position. No letter required for normal (no rotation) position.
- "SR" designates a strain relief clamp.
 - Indicate optional finishes as follows:
 - (003) olive drab cadmium plate (standard on "PT")
 - (005) anodic coating - Alumilite® (standard on "SP")
 - (014) olive drab cadmium plate over nickel
 - (023) electroless nickel
 - (024) olive drab zinc cobalt plating
 - (424) electroless nickel finish with strain relief
 - (466) olive drab zinc cobalt plating with strain relief
 - (100) Suffix added for flat eyelet pin contacts in hermetic versions
 - OR
 - RoHS Compliant finish suffix as follow:
 - (025) non-conductive black zinc cobalt plating
 - (027) conductive black zinc cobalt plating
 - (470) non-conductive black zinc cobalt plating with strain relief
 - (476) conductive black zinc cobalt plating with strain relief



MS/PT

MIL-C-26482, Series 1

Part number MS3110E20-41PW is shown as follows:

MS	311	0	E	20	-	41	P	W
1	2	3	4	5		6	7	8

For Hermetic connectors part number MS3113H20Y41PW is shown as follows:

MS	311	3	H	20	Y	41	P	W
1	2	3	4			5, 6	7	8

See code below:

- "MS" designates Military Standard
- Specification Number
 - "311" designates basic family number for MIL-C-26482, Series 1 solder type
- Shell Style
 - "0" designates wall mounting receptacle
 - "1" designates cable connecting receptacle**
 - "2" designates box mounting receptacle
 - "3" designates solder mount receptacle (hermetic only)
 - "4" designates jam nut receptacle
 - "6" designates straight plug
- Service Class
 - "E" designates environmental resisting connector
 - "F" designates environmental resisting connectors with strain relief
 - "J" designates clamp assembly for moisture proofing multi-jacketed cables, with strain relief
 - "P" designates potted type with potting boot
 - "H" designates hermetic
- Shell Size
 - "20" designates shell size. Shell sizes 8 through 24 available.
- Insert Arrangement - Refer to pages 4-11 for insert availability.
 - "20 - 41" designates arrangement. (The number following the hyphen is the number only that is used in the part number).
 - Hermetic version
 - "20Y41" designates insert arrangement; specify "Y" for flat eyelet pin contacts, or "C" for solder cup pin contacts
- Contact Configuration
 - "P" designates pin contacts
 - "S" designates socket contacts
- Insert Rotation- Refer to page 7.
 - "W", "X", "Y", "Z" designate that insert is rotated in its shell from "normal" position. No letter require for normal (no rotation) position.

* Hermetic connectors are supplied with tin plated shells.

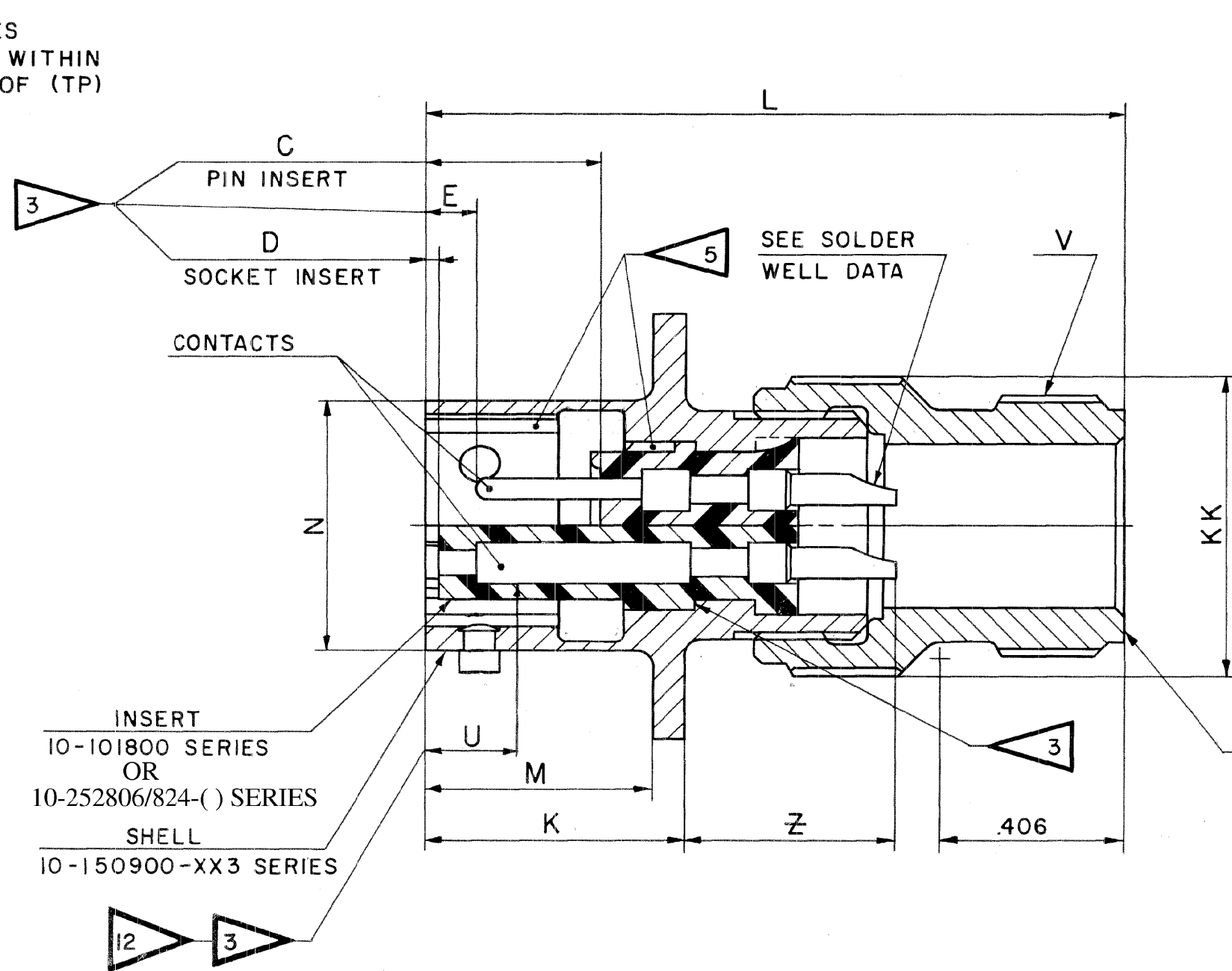
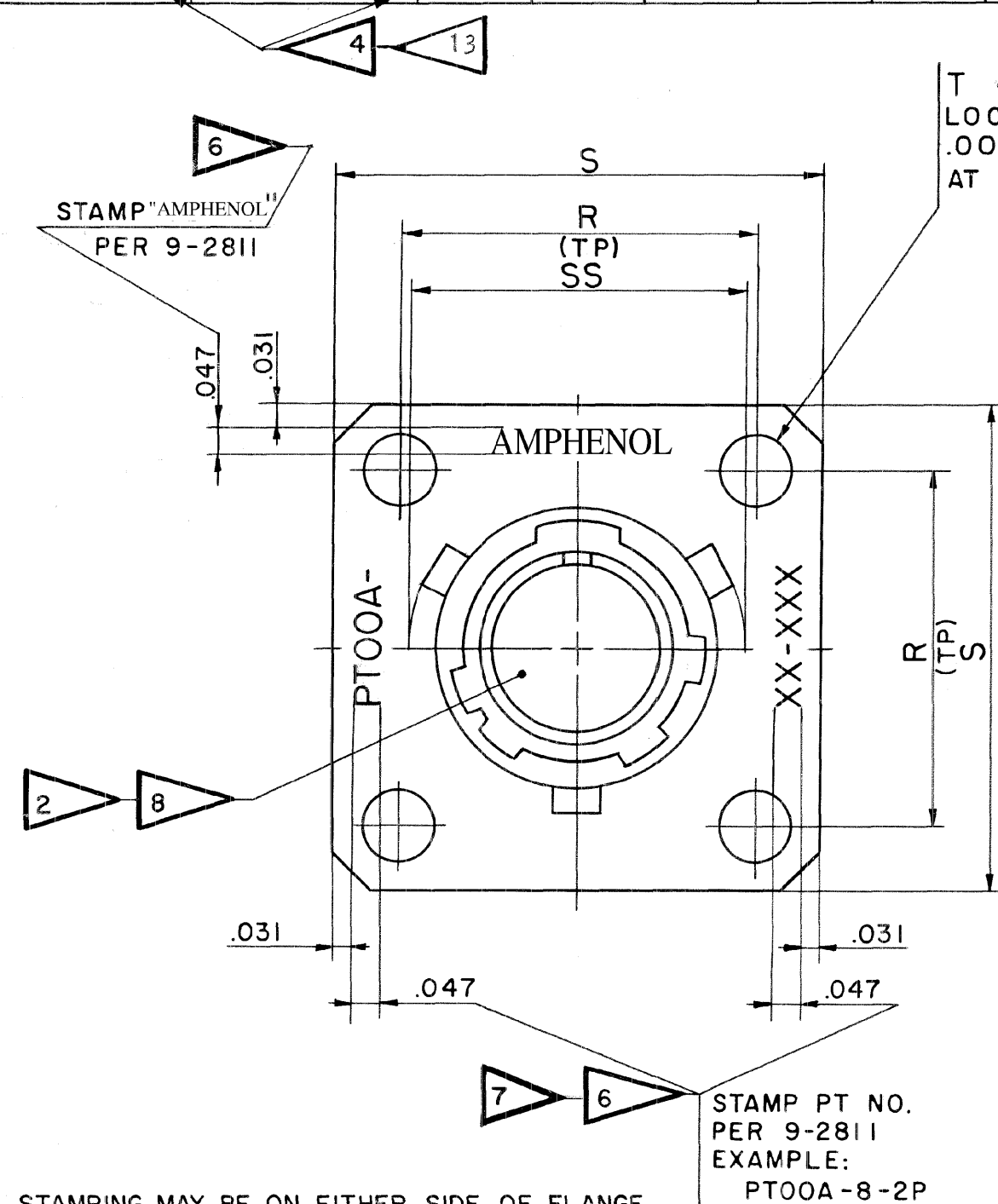
** This connector style is sometimes referred to as a cable connecting "plug". It does, however, mate with either a straight or 90 degree plug.

For ordering Miniature Breakaway PT Solder connectors see pg. 26.

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ASSEMBLY NUMBER	PT NUMBER	DIMENSIONS															U MAX
		C	D	E	K	L	M	N DIA	R	S	T DIA	V THREAD (PLATED)		Z	KK DIA	SS DIA	
		+0.010 -0.025	+0.010 -0.025	+0.010 -0.020	+0.020 -0.010	+0.040 -0.030	+0.010 -0.000	+0.001 -0.005	(TP)		±.005	SIZE CLASS 2A	PITCH DIA	+0.040 -0.050	+0.000 -0.031	+0.000 -0.016	
71-146006-	00A - 6 -	.337	.025	.085	.493	1.513	.431	.348	.469	.688	.120	.3750-32 NEF	.3547-.3503	.394	.453	.439	.153
71-146008-	- 8 -							.473	.594	.812		.5000-28 UNEF	.4768-.4720		.578	.563	
71-146010-	-10 -							.590	.719	.938		.6250-24 NEF	.5979-.5927		.703	.680	
71-146012-	-12 -							.750	.812	1.031		.7500-20 UNEF	.7175-.7118		.828	.859	
71-146014-	-14 -							.875	.906	1.125		.8750-20 UNEF	.8425-.8368		.968	.984	
71-146016-	-16 -							1.000	.969	1.219		1.0000-20 UNEF	.9675-.9616		1.078	1.108	
71-146018-	-18 -	▼	▼	▼	▼	▼	▼	1.125	1.062	1.312		1.1875-18 NEF	1.1514-1.1450	▼	1.203	1.233	▼
71-146020-	-20 -	.399	.087	.147	.650	1.635	.556	1.250	1.156	1.438		1.1875-18 NEF	1.1514-1.1450	.455	1.328	1.358	.215
71-146022-	-22 -	.399	.087	.147	.650	1.635	.556	1.375	1.250	1.562	▼	1.4375-18 NEF	1.4014-1.3949	.455	1.453	1.483	
71-146024-	▼ -24 -	.399	.087	.147	.683	1.697	.589	1.500	1.375	1.688	.147	1.4375-18 NEF	1.4014-1.3949	.422	1.578	1.614	▼
71-146025/50			NOT AVAILABLE														

REL	32508-155	WAS	DATE	D'MAN	AP
1	34105-15	N +0.000 -0.005 DIA	5-28-58	MOORE	XMP
2	33524-402	ADD & REL SIZE 24 & DATA	7-28-58	D.WAY	8 DP
3	35525-234	REV KK DIA COL, SSDIA COL, STANDARDIZED, T DIA +0.004 -0.002	10-29-58	Markowski	Hand
4	36162-8	TEST 9-3353-2 (PRO SPEC)	1-28-60	Markowski	Hand
A1	45525-946	(MFG); ADD. TC DATA BLOCK, ADD. NOTE 13. DISCARDED DRAWING 71-146008-82, -010-80, 014-81, 016-80	6-27-66	MATTICE	Hand
A2	51430-1	REM NOTE 11	4-20-70	Camelot	Hand
B	72028-49	(CL II) ADAPTER WAS 10-117911-XX3, REV. "L" COL.	2-4-81	LEWIS	Hand
C	A0738	(CL II) ADDED 10-252806/824-()	12-20-06	VJ	Hand



ACCESSORIES (NOT PART OF STANDARD ASSEMBLY)	
SEE DRAWING 10-150000	
CONTACT DATA (WHERE APPLICABLE)	
THERMOCOUPLE	
MATERIAL	IDENTIFICATION
CHROMEL	WHITE
ALUMEL	GREEN
IRON	BLACK
CONSTANTAN	YELLOW
INSERT ARRANGEMENTS CONTAINING THERMOCOUPLE CONTACTS MUST HAVE SUCH CONTACTS ASSEMBLED INTO THE INSERT IN PROPER LOCATIONS AS SPECIFIED BY APPLICABLE DRAWINGS L-15206-() THRU L-15250-()	

6. STAMPING MAY BE ON EITHER SIDE OF FLANGE (ONE SIDE ONLY).
5. VERTICAL CENTERLINES OF INSERT ARRANGEMENT & THE MAIN SHELL POLARIZING KEYWAY TO BE WITHIN .005 OF INDICATED ROTATION PER 9-2437-1.
4. TO COMPLETE ASSY NO. & PT NO., ADD APPLICABLE INSERT ARRANGEMENT SUFFIX TO BASE NUMBERS LISTED ABOVE PER 9-2437-1.
3. DIMENSIONS MUST BE MAINTAINED WHEN INSERTS ARE PRESSED FIRMLY AGAINST INDICATED SHOULDER.
2. FOR CONTACT ARRANGEMENTS, SEE DRAWINGS L-15206-() THRU L-15250-().
1. TOLERANCES ON TRUE POSITION (TP) DIMENSIONS APPLY AT MAXIMUM MATERIAL CONDITION (MMC).
- NOTES:
12. DISTANCE BETWEEN END OF SHELL AND THE POINT AT WHICH A GAGE PIN, HAVING THE SAME BASIC DIAMETER AS THE MATING CONTACT AND A SQUARE FACE, ENGAGES SOCKET CONTACT SPRING.
11. FOR COMPONENT PART NUMBERS OF DESIRED ARRANGEMENT, SEE APPLICABLE PARTS LIST.
9. SEE DRAWING 71-145606/50 AND OTHERS FOR REQUIRED MATING PLUG ASSEMBLY.
8. INSERTS AND CONTACTS MUST NOT BE REMOVED.
7. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE STAMPING.

13. FOR ASSEMBLY NUMBERS 71-146014-91, 71-146018-80 SEE INDIVIDUAL DRAWINGS.

USE OF THIS DOCUMENT IS UNLIMITED DOCUMENTS REFERENCED HEREON CONTAIN LIMITED RIGHTS DATA.

SOLDER WELL DATA			
CONTACT SIZE	20	16	
WELL DIA	.046 +0.004 -0.000	.078 +0.004 -0.002	
WELL DEPTH	.125 +0.031 -0.000	.188	
MATERIAL SPEC.	SCINTILLA MAGNETO DIVISION BENDIX AVIATION CORPORATION SIDNEY, N. Y., U.S.A.		
PROCESS SPEC.	TEST 9-3980-2 ASSY 9-3443-1 9-2437-1 9-2811		
HEAT TREAT SPEC.	FINISH SPEC.		
NAME CONNECTOR, ELECTRICAL RECEPTACLE, TYPE PTA () FW, OLIVE DRAB			
D'MAN	CHECKER	MAT. P.	STOS
RINES	KOVARICK		
TOOL ACC.	COM. REC	111 57	3-24-57
TOLERANCES UNLESS OTHERWISE SPECIFIED			
FRACTIONS ± 1/32 DECIMALS ± .010 ANGLES ± 2°			
CONCENTRICITY .015 FIR BREAK SHARP EDGES .010-.030			
SQUARENESS .010 PER INCH OF LENGTH			
MACHINED SURFACES MUST BE FLAT AND PARALLEL WITHIN THE TOLERANCE OF THE APPLICABLE DIMENSION AND SMOOTH WITHIN 200 MICRO-INCHES RMS.			
NEXT ASSEMBLY	WEIGHT - LBS		SEE PARTS LIST
SUPERSEDES	AND IS NOT INTERCHANGEABLE		
SUPERSEDED BY	71-146006 THRU 71-146050		
REF.			